

SEQUENCE LISTING

<110> WALLACH, David
SCHUCHMANN, Marcus
GONCHAROV, Tanya

<120> Caspase-8 Interacting Proteins

<130> WALLACH=26

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<141> 2000-08-24

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<151> 1999-09-28

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<170> PatentIn Ver. 2.0

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<212> DNA

<213> Homo sapiens

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Pro Leu Gly Pro Arg Ser Gln Pro Ala Cys Gln Val Ala His Asp Pro
  35              40              45
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Pro Arg Ala Cys Pro Leu Cys Ser Gln Gly Thr Lys Thr Leu Ser Gly
  50              55              60
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Ser Ile Ala Pro Met Asn Val Cys Val Arg Ala Leu Pro Ala Gly His
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65 70 75 80
 Arg Phe Ser Met Lys Ser Ala Leu Lys Ala Ala Ser Leu His Pro Ala
 85 90 95
 Gln Leu Leu Gly Leu Glu Lys Ser Lys Gly Thr Leu Thr Leu Val Leu
 100 105 110
 Thr Gln Thr Ser Trp Cys Ser Thr Thr Pro Phe Thr Ser Arg Pro Pro
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 Thr Ser Arg Val Ser Trp Cys Gly Arg Arg Thr Gln Leu Gly Ser Asp
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 Lys Asp Leu Gly
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Arg Ile Leu Arg Gly Gly Lys Leu Leu Arg Glu Asp Leu Trp Val Arg	50	55	60
Gly Gly Arg Ile Leu Asp Pro Glu Lys Leu Phe Phe Glu Glu Arg Arg	65	70	75
Val Ala Asp Glu Arg Arg Asp Cys Gly Gly Arg Ile Leu Ala Pro Gly	85	90	95
Phe Ile Asp Val Gln Ile Asn Arg Gly Phe Gly Val Asp Phe Ser Gln	100	105	110
Ala Thr Glu Asp Val Gly Ser Gly Val Ala Leu Val Ala Arg Arg Ile	115	120	125
Leu Ser His Gly Val Thr Ser Phe Cys Pro Thr Leu Val Thr Ser Pro	130	135	140
Pro Glu Ala Tyr His Lys Val Val Pro Gln Ile Pro Val Lys Ser Gly	145	150	155
Gly Pro His Gly Ala Gly Val Leu Gly Leu His Leu Glu Gly Pro Phe	165	170	175
Ile Ser Arg Glu Lys Arg Gly Ala His Pro Glu Ala His Leu Arg Ser	180	185	190
Phe Glu Ala Asp Ala Phe Gln Asp Leu Leu Ala Thr Tyr Gly Pro Leu	195	200	205
Asp Asn Val Arg Ile Val Thr Leu Ala Pro Glu Leu Gly Arg Ser His	210	215	220
Glu Val Ile Arg Ala Leu Thr Ala Arg Gly Ile Cys Val Ser Leu Gly	225	230	235
His Ser Val Ala Asp Leu Arg Ala Ala Glu Asp Ala Val Trp Ser Gly	245	250	255
Ala Thr Phe Ile Thr His Leu Phe Asn Ala Met Leu Pro Phe His His	260	265	270
Arg Asp Pro Gly Ile Val Gly Leu Leu Thr Ser Asp Arg Leu Pro Ala	275	280	285
Gly Arg Cys Ile Phe Tyr Gly Met Ile Ala Asp Gly Thr His Thr Asn	290	295	300
Pro Ala Ala Leu Arg Ile Ala His Arg Ala His Pro Gln Gly Leu Val	305	310	315
			320

Leu Val Thr Asp Ala Ile Pro Ala Leu Gly Leu Gly Asn Gly Arg His
 325 330 335
 Thr Leu Gly Gln Gln Glu Val Glu Val Asp Gly Leu Thr Ala Tyr Val
 340 345 350
 Ala Gly Glu Arg Pro Asp Pro Leu Gly Pro Arg Ser Gln Pro Ala Cys
 355 360 365
 Gln Val Ala His Asp Pro Pro Arg Ala Cys Pro Leu Cys Ser Gln Gly
 370 375 380
 Thr Lys Thr Leu Ser Gly Ser Ile Ala Pro Met Asn Val Cys Val Arg
 385 390 395 400
 His Phe Leu Gln Ala Thr Gly Cys Ser Met Glu Ser Ala Leu Glu Ala
 405 410 415
 Ala Ser Leu His Pro Ala Gln Leu Leu Gly Leu Glu Lys Ser Lys Gly
 420 425 430
 Thr Leu Asp Phe Gly Ala Asp Ala Asp Phe Val Val Leu Asp Asp Ser
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 Asp Ala Ala Arg Gln

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 <212> DNA
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<210> 6

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<212> PRT

<213> Homo sapiens

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Ser Glu Lys Pro Arg Leu Arg Gln Ile Pro Ser Ala Glu Asp Leu Glu
      20                      25                      30

```

```

Thr Asp Gly Gly Gly Pro Gly Gln Val Val Asp Asp Gly Leu Glu His
    35                      40                      45

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Arg Glu Leu Gly His Gly Gln Pro Glu Ala Arg Gly Pro Ala Pro Leu
    50                      55                      60

```

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Gln Gln His Pro Gln Val Leu Leu Trp Glu Gln Gln Arg Leu Ala Gly
    65                      70                      75                      80

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Arg Leu Pro Arg Gly Ser Thr Gly Asp Thr Val Leu Leu Pro Leu Ala
      85                      90                      95

```

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Gln Gly Gly His Arg Pro Leu Ser Arg Ala Gln Ser Ser Pro Ala Ala
    100                      105                      110

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Pro Ala Ser Leu Ser Ala Pro Glu Pro Ala Ser Gln Ala Arg Val Leu
    115                      120                      125

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Ser Ser Ser Glu Thr Pro Ala Arg Thr Leu Pro Phe Thr Thr Gly Leu
    130                      135                      140

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Ile Tyr Asp Ser Val Met Leu Lys His Gln Cys Ser Cys Gly Asp Asn
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```

Ser Arg His Pro Glu His Ala Gly Arg Ile Gln Ser Ile Trp Ser Arg
    165                      170                      175

```

```

Leu Gln Glu Arg Gly Leu Arg Ser Gln Cys Glu Cys Leu Arg Gly Arg
    180                      185                      190

```

```

Lys Ala Ser Leu Glu Glu Leu Gln Ser Val His Ser Glu Arg His Val
    195                      200                      205

```

```

Leu Leu Tyr Gly Thr Asn Pro Leu Ser Arg Leu Lys Leu Asp Asn Gly
    210                      215                      220

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Lys Leu Ala Gly Leu Leu Ala Gln Arg Met Phe Val Met Leu Pro Cys

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225		230		235		240
Gly Gly Val Gly Val Asp Thr Asp Thr Ile Trp Asn Glu Leu His Ser						
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Lys Val Ala Ser Arg Glu Leu Lys Asn Gly Phe Ala Val Val Arg Pro		275		280		285
Pro Gly His His Ala Asp His Ser Thr Ala Met Gly Phe Cys Phe Phe		290		295		300
Asn Ser Val Ala Ile Ala Cys Arg Gln Leu Gln Gln Gln Ser Lys Ala		305		310		315
						320
Ser Lys Ile Leu Ile Val Asp Trp Asp Val His His Gly Asn Gly Thr		325		330		335
Gln Gln Thr Phe Tyr Gln Asp Pro Ser Val Leu Tyr Ile Ser Leu His		340		345		350
Arg His Asp Asp Gly Asn Phe Phe Pro Gly Ser Gly Ala Val Asp Glu		355		360		365
Val Gly Ala Gly Ser Gly Glu Gly Phe Asn Val Asn Val Ala Trp Ala		370		375		380
Gly Gly Leu Asp Pro Pro Met Gly Asp Pro Glu Tyr Leu Ala Ala Phe		385		390		395
						400
Arg Ile Val Val Met Pro Ile Ala Arg Glu Phe Ser Pro Asp Leu Val		405		410		415
Leu Val Ser Ala Gly Phe Asp Ala Ala Glu Gly His Pro Ala Pro Leu		420		425		430
Gly Gly Tyr His Val Ser Ala Lys Cys Phe Gly Tyr Met Thr Gln Gln		435		440		445
Leu Met Asn Leu Ala Gly Gly Ala Val Val Leu Ala Leu Glu Gly Gly		450		455		460
His Asp Leu Thr Ala Ile Cys Asp Ala Ser Glu Ala Cys Val Ala Ala		465		470		475
						480
Leu Leu Gly Asn Arg Val Asp Pro Leu Ser Glu Glu Gly Trp Lys Gln		485		490		495
Lys Pro Asn Leu Asn Ser Ile Arg Ser Leu Glu Ala Val Ile Arg Val		500		505		510
His Ser Lys Tyr Trp Gly Cys Met Gln Arg Leu Ala Ser Cys Pro Asp		515		520		525
Ser Trp Val Pro Arg Val Pro Gly Ala Asp Lys Glu Glu Val Glu Ala		530		535		540

Val Thr Ala Leu Ala Ser Leu Ser Val Gly Ile Leu Ala Glu Asp Arg
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Pro Ser Glu Gln Leu Val Glu Glu Glu Glu Pro Met Asn Leu
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 <212> PRT
 <213> Homo sapiens

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Thr Gly Arg Gly Ala Glu Arg Arg Pro Arg Pro Pro Asp Ser Ser Ala
 35 40 45

Glu Gly Asp Pro Gly Met Leu Lys Pro Cys Gly Cys Val Pro Ser Pro
 50 55 60

Gln Lys Val Ala Leu Lys Val Gly Ala Pro Phe Cys Thr Cys Gly Cys
 65 70 75 80

Phe Gln Arg Phe His Leu Pro Lys Ala Cys Pro Gly Gln Gln Gly Ser
 85 90 95

Pro Glu Ser Ala Arg Pro Arg Asn Arg Gln Pro Tyr Ala Thr Gln Asn
 100 105 110

Gly Pro Ala Pro Arg Pro Gln Val Leu Pro Gly Ser Ser Ser Arg Cys
 115 120 125

Cys His Gly Tyr Ile Cys Phe Leu Phe Asp Ser Ser Gln Thr Ala Glu
 130 135 140

Val Glu Val Gly Trp Gly Gly Asp Thr Gly Ser Gln Leu Arg Pro Leu
 145 150 155 160

Leu Arg Gly Ala Val Tyr Asn Ser Arg Met Trp Asp Ser Gln Lys Glu
 165 170 175

Asp Ser Lys Pro Asp Ile Leu Arg Leu Gln Asn Thr Gln Leu Phe His
 180 185 190

Ser Val Ser Leu Ser Thr Asp Gly Thr Gln Val Ser Pro Gly Ala His
 195 200 205

Tyr Cys Ser Pro Thr Gly Ala Gly Cys Pro Arg Pro Cys Ala Asp Thr
 210 215 220

Pro Gly Pro Gln Pro Gln Pro Met Asp Leu Arg Val Gly Gln Arg Pro

225					230					235				240	
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			260					265					270		
Ser	Val	Glu	Pro	Met	Arg	Val	Lys	Met	Glu	Leu	Pro	Ala	Cys	Gly	Ala
		275					280					285			
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Pro	Gln	Leu	Ser	Met	Asp	Thr	Pro	Met	Pro	Glu	Leu	Gln	Val	Gly	Pro
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Gln	Glu	Gln	Glu	Leu	Arg	Gln	Leu	Leu	His	Lys	Asp	Lys	Ser	Lys	Arg
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Ser	Lys	Glu	Val	Ala	Thr	Pro	Ala	Gln	Pro	Ser	Pro	Thr	Ser	Gln	Val
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Pro	Ala	Ala	Ala	Cys	Val	Ala	Cys	Ala	Val	Ala	Ser	Ser	Val	Val	Lys
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Arg	Thr	Val	His	Pro	Asn	Ser	Pro	Gly	Ile	Pro	Tyr	Arg	Ser	Gln	Gly
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Pro	Trp	His	Ser	Phe	Cys	Arg	Thr	Leu	Glu	Pro	Leu	Glu	Thr	Glu	Gly
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Ala	Thr	Arg	Ser	Met	Leu	Ser	Ser	Phe	Leu	Pro	Pro	Val	Pro	Ser	Leu
	450					455						460			
Pro	Ser	Asp	Pro	Pro	Glu	His	Phe	Pro	Leu	Arg	Lys	Thr	Val	Ser	Glu
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Pro	Asn	Leu	Lys	Leu	Arg	Tyr	Lys	Pro	Lys	Lys	Ser	Leu	Glu	Arg	Arg
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Lys	Asn	Pro	Leu	Leu	Arg	Lys	Glu	Ser	Ala	Pro	Pro	Ser	Leu	Arg	Arg
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Arg	Pro	Ala	Glu	Thr	Leu	Gly	Asp	Ser	Ser	Pro	Ser	Ser	Ser	Ser	Thr
		515					520					525			
Pro	Ala	Ser	Gly	Cys	Ser	Ser	Pro	Asn	Asp	Ser	Glu	His	Gly	Pro	Asn

530	535	540
Pro Ile Leu Gly Ser Glu Ala Leu Leu Gly Gln Arg Leu Arg Leu Gln 545 550 555 560		
Glu Thr Ser Val Ala Pro Phe Ala Leu Pro Thr Val Ser Leu Leu Pro 565 570 575		
Ala Ile Thr Leu Gly Leu Pro Ala Pro Ala Arg Ala Asp Ser Asp Arg 580 585 590		
Arg Thr His Pro Thr Leu Gly Pro Arg Gly Pro Ile Leu Gly Ser Pro 595 600 605		
His Thr Pro Leu Phe Leu Pro His Gly Leu Glu Pro Glu Ala Gly Gly 610 615 620		
Thr Leu Pro Ser Arg Leu Gln Pro Ile Leu Leu Leu Asp Pro Ser Gly 625 630 635 640		
Ser His Ala Pro Leu Leu Thr Val Pro Gly Leu Gly Pro Leu Pro Phe 645 650 655		
His Phe Ala Gln Ser Leu Met Thr Thr Glu Arg Leu Ser Gly Ser Gly 660 665 670		
Leu His Trp Pro Leu Ser Arg Thr Arg Ser Glu Pro Leu Pro Pro Ser 675 680 685		
Ala Thr Ala Pro Pro Pro Pro Gly Pro Met Gln Pro Arg Leu Glu Gln 690 695 700		
Leu Lys Thr His Val Gln Val Ile Lys Arg Ser Ala Lys Pro Ser Glu 705 710 715 720		
Lys Pro Arg Leu Arg Gln Ile Pro Ser Ala Glu Asp Leu Glu Thr Asp 725 730 735		
Gly Gly Gly Pro Gly Gln Val Val Asp Asp Gly Leu Glu His Arg Glu 740 745 750		
Leu Gly His Gly Gln Pro Glu Ala Arg Gly Pro Ala Pro Leu Gln Gln 755 760 765		
His Pro Gln Val Leu Leu Trp Glu Gln Gln Arg Leu Ala Gly Arg Leu 770 775 780		
Pro Arg Gly Ser Thr Gly Asp Thr Val Leu Leu Pro Leu Ala Gln Gly 785 790 795 800		
Gly His Arg Pro Leu Ser Arg Ala Gln Ser Ser Pro Ala Ala Pro Ala 805 810 815		
Ser Leu Ser Ala Pro Glu Pro Ala Ser Gln Ala Arg Val Leu Ser Ser 820 825 830		
Ser Glu Thr Pro Ala Arg Thr Leu Pro Phe Thr Thr Gly Leu Ile Tyr		

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Asp	Ser	Val	Met	Leu	Lys	His	Gln	Cys	Ser	Cys	Gly	Asp	Asn	Ser	Arg
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His	Pro	Glu	His	Ala	Gly	Arg	Ile	Gln	Ser	Ile	Trp	Ser	Arg	Leu	Gln
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Glu	Arg	Gly	Leu	Arg	Ser	Gln	Cys	Glu	Cys	Leu	Arg	Gly	Arg	Lys	Ala
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Ser	Leu	Glu	Glu	Leu	Gln	Ser	Val	His	Ser	Glu	Arg	His	Val	Leu	Leu
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Thr	Ala	Met	Gly	Phe	Cys	Phe	Phe	Asn	Ser	Val	Ala	Ile	Ala	Cys	Arg
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 1170 1175 1180
 Arg Glu Phe Ser Pro Asp Leu Val Leu Val Ser Ala Gly Phe Asp Ala
 1185 1190 1195 1200
 Ala Glu Gly His Pro Ala Pro Leu Gly Gly Tyr His Val Ser Ala Lys
 1205 1210 1215
 Cys Phe Gly Tyr Met Thr Gln Gln Leu Met Asn Leu Ala Gly Gly Ala
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 1235 1240 1245
 Ala Ser Glu Ala Cys Val Ala Ala Leu Leu Gly Asn Arg Val Asp Pro
 1250 1255 1260
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 Ser Leu Glu Ala Val Ile Arg Val His Ser Lys Cys Gly Asp Gly Thr
 1285 1290 1295
 Leu Ala Glu Leu Arg Leu Lys Asp Leu Gly Gly Thr Leu Pro His Arg
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 Gly Gln Ile Leu Gly Phe Arg Cys Gln Pro Gly Asp Leu Leu Leu Val
 1315 1320 1325
 Trp Ser Lys Ile Pro Val Ser Asp Pro Gly Ser Asn Gly Glu His Pro
 1330 1335 1340
 Pro Val Arg Gly Tyr Pro Leu Ser Pro Pro Asp Gly Ala Ser Arg Ala
 1345 1350 1355 1360
 Tyr Gln Thr Val Ala Pro Gln Gly Lys Tyr Trp Gly Cys Met Gln Arg
 1365 1370 1375
 Leu Ala Ser Cys Pro Asp Ser Trp Val Pro Arg Val Pro Gly Ala Asp
 1380 1385 1390
 Lys Glu Glu Val Glu Ala Val Thr Ala Leu Ala Ser Leu Ser Val Gly
 1395 1400 1405
 Ile Leu Ala Glu Asp Arg Pro Ser Glu Gln Leu Val Glu Glu Glu Glu
 1410 1415 1420
 Pro Met Asn Leu
 1425

<210> 8
 <211> 1200
 <212> PRT
 <213> Homo sapiens

<400> 8

Pro	Gln	Pro	Gln	Pro	Met	Asp	Leu	Arg	Val	Gly	Gln	Arg	Pro	Pro	Val
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Glu	Pro	Pro	Pro	Glu	Pro	Thr	Leu	Leu	Ala	Leu	Gln	Arg	Pro	Gln	Arg
			20					25					30		
Leu	His	His	His	Leu	Phe	Leu	Ala	Gly	Leu	Gln	Gln	Gln	Arg	Ser	Val
		35					40					45			
Glu	Pro	Met	Arg	Val	Lys	Met	Glu	Leu	Pro	Ala	Cys	Gly	Ala	Thr	Leu
		50				55					60				
Ser	Leu	Val	Pro	Ser	Leu	Pro	Ala	Phe	Ser	Ile	Pro	Arg	His	Gln	Ser
65					70					75					80
Gln	Ser	Ser	Thr	Pro	Cys	Pro	Phe	Leu	Gly	Cys	Arg	Pro	Cys	Pro	Gln
				85					90					95	
Leu	Ser	Met	Asp	Thr	Pro	Met	Pro	Glu	Leu	Gln	Val	Gly	Pro	Gln	Glu
			100					105					110		
Gln	Glu	Leu	Arg	Gln	Leu	Leu	His	Lys	Asp	Lys	Ser	Lys	Arg	Ser	Lys
		115					120					125			
Glu	Val	Ala	Thr	Pro	Ala	Gln	Pro	Ser	Pro	Thr	Ser	Gln	Val	Pro	Ala
		130				135					140				
Ala	Ala	Cys	Val	Ala	Cys	Ala	Val	Ala	Ser	Ser	Val	Val	Lys	Gln	Lys
145					150				155						160
Leu	Ala	Glu	Val	Ile	Leu	Lys	Lys	Gln	Gln	Ala	Ala	Leu	Glu	Arg	Thr
				165				170						175	
Val	His	Pro	Asn	Ser	Pro	Gly	Ile	Pro	Tyr	Arg	Ser	Gln	Gly	Pro	Cys
			180					185					190		
Ser	Gly	Gln	Cys	Pro	Cys	Ser	Val	Pro	Thr	Pro	Leu	Lys	Gln	Pro	Trp
		195					200					205			
His	Ser	Phe	Cys	Arg	Thr	Leu	Glu	Pro	Leu	Glu	Thr	Glu	Gly	Ala	Thr
		210				215					220				
Arg	Ser	Met	Leu	Ser	Ser	Phe	Leu	Pro	Pro	Val	Pro	Ser	Leu	Pro	Ser
225					230					235					240
Asp	Pro	Pro	Glu	His	Phe	Pro	Leu	Arg	Lys	Thr	Val	Ser	Glu	Pro	Asn
				245					250					255	
Leu	Lys	Leu	Arg	Tyr	Lys	Pro	Lys	Lys	Ser	Leu	Glu	Arg	Arg	Lys	Asn
			260					265					270		
Pro	Leu	Leu	Arg	Lys	Glu	Ser	Ala	Pro	Pro	Ser	Leu	Arg	Arg	Arg	Pro

275					280					285					
Ala	Glu	Thr	Leu	Gly	Asp	Ser	Ser	Pro	Ser	Ser	Ser	Ser	Thr	Pro	Ala
290						295				300					
Ser	Gly	Cys	Ser	Ser	Pro	Asn	Asp	Ser	Glu	His	Gly	Pro	Asn	Pro	Ile
305					310					315					320
Leu	Gly	Ser	Glu	Ala	Leu	Leu	Gly	Gln	Arg	Leu	Arg	Leu	Gln	Glu	Thr
				325					330					335	
Ser	Val	Ala	Pro	Phe	Ala	Leu	Pro	Thr	Val	Ser	Leu	Leu	Pro	Ala	Ile
			340					345					350		
Thr	Leu	Gly	Leu	Pro	Ala	Pro	Ala	Arg	Ala	Asp	Ser	Asp	Arg	Arg	Thr
		355					360					365			
His	Pro	Thr	Leu	Gly	Pro	Arg	Gly	Pro	Ile	Leu	Gly	Ser	Pro	His	Thr
	370					375					380				
Pro	Leu	Phe	Leu	Pro	His	Gly	Leu	Glu	Pro	Glu	Ala	Gly	Gly	Thr	Leu
385					390					395					400
Pro	Ser	Arg	Leu	Gln	Pro	Ile	Leu	Leu	Leu	Asp	Pro	Ser	Gly	Ser	His
				405					410					415	
Ala	Pro	Leu	Leu	Thr	Val	Pro	Gly	Leu	Gly	Pro	Leu	Pro	Phe	His	Phe
			420					425					430		
Ala	Gln	Ser	Leu	Met	Thr	Thr	Glu	Arg	Leu	Ser	Gly	Ser	Gly	Leu	His
		435					440					445			
Trp	Pro	Leu	Ser	Arg	Thr	Arg	Ser	Glu	Pro	Leu	Pro	Pro	Ser	Ala	Thr
	450					455					460				
Ala	Pro	Pro	Pro	Pro	Gly	Pro	Met	Gln	Pro	Arg	Leu	Glu	Gln	Leu	Lys
465					470					475					480
Thr	His	Val	Gln	Val	Ile	Lys	Arg	Ser	Ala	Lys	Pro	Ser	Glu	Lys	Pro
				485					490					495	
Arg	Leu	Arg	Gln	Ile	Pro	Ser	Ala	Glu	Asp	Leu	Glu	Thr	Asp	Gly	Gly
			500					505					510		
Gly	Pro	Gly	Gln	Val	Val	Asp	Asp	Gly	Leu	Glu	His	Arg	Glu	Leu	Gly
		515					520					525			
His	Gly	Gln	Pro	Glu	Ala	Arg	Gly	Pro	Ala	Pro	Leu	Gln	Gln	His	Pro
	530					535					540				
Gln	Val	Leu	Leu	Trp	Glu	Gln	Gln	Arg	Leu	Ala	Gly	Arg	Leu	Pro	Arg
545					550					555					560
Gly	Ser	Thr	Gly	Asp	Thr	Val	Leu	Leu	Pro	Leu	Ala	Gln	Gly	Gly	His
			565						570					575	
Arg	Pro	Leu	Ser	Arg	Ala	Gln	Ser	Ser	Pro	Ala	Ala	Pro	Ala	Ser	Leu
			580					585					590		

Ser Ala Pro Glu Pro Ala Ser Gln Ala Arg Val Leu Ser Ser Ser Glu
 595 600 605
 Thr Pro Ala Arg Thr Leu Pro Phe Thr Thr Gly Leu Ile Tyr Asp Ser
 610 615 620
 Val Met Leu Lys His Gln Cys Ser Cys Gly Asp Asn Ser Arg His Pro
 625 630 635 640
 Glu His Ala Gly Arg Ile Gln Ser Ile Trp Ser Arg Leu Gln Glu Arg
 645 650 655
 Gly Leu Arg Ser Gln Cys Glu Cys Leu Arg Gly Arg Lys Ala Ser Leu
 660 665 670
 Glu Glu Leu Gln Ser Val His Ser Glu Arg His Val Leu Leu Tyr Gly
 675 680 685
 Thr Asn Pro Leu Ser Arg Leu Lys Leu Asp Asn Gly Lys Leu Ala Gly
 690 695 700
 Leu Leu Ala Gln Arg Met Phe Val Met Leu Pro Cys Gly Gly Val Gly
 705 710 715 720
 Pro Leu Ala Thr Leu Ser Ala Phe Leu Ala Ser Leu Ala Pro Thr Val
 725 730 735
 Pro Gln Gly Leu Ser Arg Val Ser Trp Gly Leu Lys Pro Pro Pro Gly
 740 745 750
 Pro Asn Pro Lys Ser Arg Pro Ala Pro Cys Pro Trp Gly Pro Gly Arg
 755 760 765
 Gly Val Gly Thr Thr Pro Leu Gly Pro Gly Ser Cys Val Lys Pro Trp
 770 775 780
 Met Met Arg Ala Leu Thr Leu Ala Pro Gln Val Asp Thr Asp Thr Ile
 785 790 795 800
 Trp Asn Glu Leu His Ser Ser Asn Ala Ala Arg Trp Ala Ala Gly Ser
 805 810 815
 Val Thr Asp Leu Ala Phe Lys Val Ala Ser Arg Glu Leu Lys Asn Gly
 820 825 830
 Phe Ala Val Val Arg Pro Pro Gly His His Ala Asp His Ser Thr Ala
 835 840 845
 Met Gly Phe Cys Phe Phe Asn Ser Val Ala Ile Ala Cys Arg Gln Leu
 850 855 860
 Gln Gln Gln Ser Lys Ala Ser Lys Ile Leu Ile Val Asp Trp Asp Val
 865 870 875 880
 His His Gly Asn Gly Thr Gln Gln Thr Phe Tyr Gln Asp Pro Ser Val
 885 890 895

Leu Tyr Ile Ser Leu His Arg His Asp Asp Gly Asn Phe Phe Pro Gly
 900 905 910
 Ser Gly Ala Val Asp Glu Val Gly Ala Gly Ser Gly Glu Gly Phe Asn
 915 920 925
 Val Asn Val Ala Trp Ala Gly Gly Leu Asp Pro Pro Met Gly Asp Pro
 930 935 940
 Glu Tyr Leu Ala Ala Phe Arg Ile Val Val Met Pro Ile Ala Arg Glu
 945 950 955 960
 Phe Ser Pro Asp Leu Val Leu Val Ser Ala Gly Phe Asp Ala Ala Glu
 965 970 975
 Gly His Pro Ala Pro Leu Gly Gly Tyr His Val Ser Ala Lys Cys Phe
 980 985 990
 Gly Tyr Met Thr Gln Gln Leu Met Asn Leu Ala Gly Gly Ala Val Val
 995 1000 1005
 Leu Ala Leu Glu Gly Gly His Asp Leu Thr Ala Ile Cys Asp Ala Ser
 1010 1015 1020
 Glu Ala Cys Val Ala Ala Leu Leu Gly Asn Arg Val Asp Pro Leu Ser
 1025 1030 1035 1040
 Glu Glu Gly Trp Lys Gln Lys Pro Asn Leu Asn Ala Ile Arg Ser Leu
 1045 1050 1055
 Glu Ala Val Ile Arg Val His Ser Lys Cys Gly Asp Gly Thr Leu Ala
 1060 1065 1070
 Glu Leu Arg Leu Lys Asp Leu Gly Gly Thr Leu Pro His Arg Gly Gln
 1075 1080 1085
 Ile Leu Gly Phe Arg Cys Gln Pro Gly Asp Leu Leu Leu Val Trp Ser
 1090 1095 1100
 Lys Ile Pro Val Ser Asp Pro Gly Ser Asn Gly Glu His Pro Pro Val
 1105 1110 1115 1120
 Arg Gly Tyr Pro Leu Ser Pro Pro Asp Gly Ala Ser Arg Ala Tyr Gln
 1125 1130 1135
 Thr Val Ala Pro Gln Gly Lys Tyr Trp Gly Cys Met Gln Arg Leu Ala
 1140 1145 1150
 Ser Cys Pro Asp Ser Trp Val Pro Arg Val Pro Gly Ala Asp Lys Glu
 1155 1160 1165
 Glu Val Glu Ala Val Thr Ala Leu Ala Ser Leu Ser Val Gly Ile Leu
 1170 1175 1180
 Ala Glu Asp Arg Pro Ser Glu Gln Leu Val Glu Glu Glu Glu Pro Met
 1185 1190 1195 1200

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 <212> PRT
 <213> Homo sapiens

<400> 9
 Pro Ser Ala Val Pro Met Asp Leu Arg Leu Asp His Gln Phe Ser Leu
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 Pro Val Ala Glu Pro Ala Leu Arg Glu Gln Gln Leu Gln Gln Glu Leu
 20 25 30
 Leu Ala Leu Lys Gln Lys Gln Gln Ile Gln Arg Gln Ile Leu Ile Ala
 35 40 45
 Glu Phe Gln Arg Gln His Glu Gln Leu Ser Arg Gln His Glu Ala Gln
 50 55 60
 Leu His Glu His Ile Lys Gln Gln Gln Glu Met Leu Ala Met Lys His
 65 70 75 80
 Gln Gln Glu Leu Leu Glu His Gln Arg Lys Leu Glu Arg His Arg Gln
 85 90 95
 Glu Gln Glu Leu Glu Lys Gln His Arg Glu Gln Lys Leu Gln Gln Leu
 100 105 110
 Lys Asn Lys Glu Lys Gly Lys Glu Ser Ala Val Ala Ser Thr Glu Val
 115 120 125
 Lys Met Lys Leu Gln Glu Phe Val Leu Asn Lys Lys Lys Ala Leu Ala
 130 135 140
 His Arg Asn Leu Asn His Cys Ile Ser Ser Asp Pro Arg Tyr Trp Tyr
 145 150 155 160
 Gly Lys Thr Gln His Ser Ser Leu Asp Gln Ser Ser Pro Pro Gln Ser
 165 170 175
 Gly Val Ser Thr Ser Tyr Asn His Pro Val Leu Gly Met Tyr Asp Ala
 180 185 190
 Lys Asp Asp Phe Pro Leu Arg Lys Thr Ala Ser Glu Pro Asn Leu Lys
 195 200 205
 Leu Arg Ser Arg Leu Lys Gln Lys Val Ala Glu Arg Arg Ser Ser Pro
 210 215 220
 Leu Leu Arg Arg Lys Asp Gly Pro Val Val Thr Ala Leu Lys Lys Arg
 225 230 235 240
 Pro Leu Asp Val Thr Asp Ser Ala Cys Ser Ser Ala Pro Gly Ser Gly
 245 250 255
 Pro Ser Ser Pro Asn Asn Ser Ser Gly Ser Val Ser Ala Glu Asn Gly
 260 265 270
 Ile Ala Pro Ala Val Pro Ser Ile Pro Ala Glu Thr Ser Leu Ala His

275					280					285					
Arg	Leu	Val	Ala	Arg	Glu	Gly	Ser	Ala	Ala	Pro	Leu	Pro	Leu	Tyr	Thr
290					295					300					
Ser	Pro	Ser	Leu	Pro	Asn	Ile	Thr	Leu	Gly	Leu	Pro	Ala	Thr	Gly	Pro
305					310					315					320
Ser	Ala	Gly	Thr	Ala	Gly	Gln	Gln	Asp	Thr	Glu	Arg	Leu	Thr	Leu	Pro
				325					330					335	
Ala	Leu	Gln	Gln	Arg	Leu	Ser	Leu	Phe	Pro	Gly	Thr	His	Leu	Thr	Pro
				340				345						350	
Tyr	Leu	Ser	Thr	Ser	Pro	Leu	Glu	Arg	Asp	Gly	Gly	Ala	Ala	His	Ser
		355					360					365			
Pro	Leu	Leu	Gln	His	Met	Val	Leu	Leu	Glu	Gln	Pro	Pro	Ala	Gln	Ala
	370					375					380				
Pro	Leu	Val	Thr	Gly	Leu	Gly	Ala	Leu	Pro	Leu	His	Ala	Gln	Ser	Leu
385						390					395				400
Val	Gly	Ala	Asp	Arg	Val	Ser	Pro	Ser	Ile	His	Lys	Leu	Arg	Gln	His
				405					410					415	
Arg	Pro	Leu	Gly	Arg	Thr	Gln	Ser	Ala	Pro	Leu	Pro	Gln	Asn	Ala	Gln
			420					425					430		
Ala	Leu	Gln	His	Leu	Val	Ile	Gln	Gln	Gln	His	Gln	Gln	Phe	Leu	Glu
			435				440						445		
Lys	His	Lys	Gln	Gln	Phe	Gln	Gln	Gln	Gln	Leu	Gln	Met	Asn	Lys	Ile
	450					455					460				
Ile	Pro	Lys	Pro	Ser	Glu	Pro	Ala	Arg	Gln	Pro	Glu	Ser	His	Pro	Glu
465						470					475				480
Glu	Thr	Glu	Glu	Glu	Leu	Arg	Glu	His	Gln	Ala	Leu	Leu	Asp	Glu	Pro
				485					490					495	
Tyr	Leu	Asp	Arg	Leu	Pro	Gly	Gln	Lys	Glu	Ala	His	Ala	Gln	Ala	Gly
			500					505					510		
Val	Gln	Val	Lys	Gln	Glu	Pro	Ile	Glu	Ser	Asp	Glu	Glu	Glu	Ala	Glu
			515				520						525		
Pro	Pro	Arg	Glu	Val	Glu	Pro	Gly	Gln	Arg	Gln	Pro	Ser	Glu	Gln	Glu
			530			535					540				
Leu	Leu	Phe	Arg	Gln	Gln	Ala	Leu	Leu	Leu	Glu	Gln	Gln	Arg	Ile	His
545						550					555				560
Gln	Leu	Arg	Asn	Tyr	Gln	Ala	Ser	Met	Glu	Ala	Ala	Gly	Ile	Pro	Val
				565					570					575	
Ser	Phe	Gly	Gly	His	Arg	Pro	Leu	Ser	Arg	Ala	Gln	Ser	Ser	Pro	Ala
			580					585					590		

Ser Ala Thr Phe Pro Val Ser Val Gln Glu Pro Pro Thr Lys Pro Arg
 595 600 605
 Phe Thr Thr Gly Leu Val Tyr Asp Thr Leu Met Leu Lys His Gln Cys
 610 615 620
 Thr Cys Gly Ser Ser Ser Ser His Pro Glu His Ala Gly Arg Ile Gln
 625 630 635 640
 Ser Ile Trp Ser Arg Leu Gln Glu Thr Gly Leu Arg Gly Lys Cys Glu
 645 650 655
 Cys Ile Arg Gly Arg Lys Ala Thr Leu Glu Glu Leu Gln Thr Val His
 660 665 670
 Ser Glu Ala His Thr Leu Leu Tyr Gly Thr Asn Pro Leu Asn Arg Gln
 675 680 685
 Lys Leu Asp Ser Lys Lys Leu Leu Gly Ser Leu Ala Ser Val Phe Val
 690 695 700
 Arg Leu Pro Cys Gly Gly Val Gly Val Asp Ser Asp Thr Ile Trp Asn
 705 710 715 720
 Glu Val His Ser Ala Gly Ala Ala Arg Leu Ala Val Gly Cys Val Val
 725 730 735
 Glu Leu Val Phe Lys Val Ala Thr Gly Glu Leu Lys Asn Gly Phe Ala
 740 745 750
 Val Val Arg Pro Pro Gly His His Ala Glu Glu Ser Thr Pro Met Gly
 755 760 765
 Phe Cys Tyr Phe Asn Ser Val Ala Val Ala Ala Lys Leu Leu Gln Gln
 770 775 780
 Arg Leu Ser Val Ser Lys Ile Leu Ile Val Asp Trp Asp Val His His
 785 790 795 800
 Gly Asn Gly Thr Gln Gln Ala Phe Tyr Ser Asp Pro Ser Val Leu Tyr
 805 810 815
 Met Ser Leu His Arg Tyr Asp Asp Gly Asn Phe Phe Pro Gly Ser Gly
 820 825 830
 Ala Pro Asp Glu Val Gly Thr Gly Pro Gly Val Gly Phe Asn Val Asn
 835 840 845
 Met Ala Phe Thr Gly Gly Leu Asp Pro Pro Met Gly Asp Ala Glu Tyr
 850 855 860
 Leu Ala Ala Phe Arg Thr Val Val Met Pro Ile Ala Ser Glu Phe Ala
 865 870 875 880
 Pro Asp Val Val Leu Val Ser Ser Gly Phe Asp Ala Val Glu Gly His
 885 890 895

Pro Thr Pro Leu Gly Gly Tyr Asn Leu Ser Ala Arg Cys Phe Gly Tyr
 900 905 910
 Leu Thr Lys Gln Leu Met Gly Leu Ala Gly Gly Arg Ile Val Leu Ala
 915 920 925
 Leu Glu Gly Gly His Asp Leu Thr Ala Ile Cys Asp Ala Ser Glu Ala
 930 935 940
 Cys Val Ser Ala Leu Leu Gly Asn Glu Leu Asp Pro Leu Pro Glu Lys
 945 950 955 960
 Val Leu Gln Gln Arg Pro Asn Ala Asn Ala Val Arg Ser Met Glu Lys
 965 970 975
 Val Met Glu Ile His Ser Lys Tyr Trp Arg Cys Leu Gln Arg Thr Thr
 980 985 990
 Ser Thr Ala Gly Arg Ser Leu Ile Glu Ala Gln Thr Cys Glu Asn Glu
 995 1000 1005
 Glu Ala Glu Thr Val Thr Ala Met Ala Ser Leu Ser Val Gly Val Lys
 1010 1015 1020
 Pro Ala Glu Lys Arg Pro Asp Glu Glu Pro Met Glu Glu Glu Pro Pro
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Leu

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 <211> 16
 <212> DNA
 <213> Artificial

<220>
 <223> synthetic

<400> 10
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16